SUMMARY OF GENERAL SPECIFICATIONS FOR TRACK GEOMETRY MEASUREMENT VEHICLE FRA T-2000

VEHICLE SYSTEM

Type: Self-Propelled Railcar (Specialized Maintenance Equipment) Compatible with AAR

Interchange Rules

Manufacturer: Plasser & Theurer

Propulsion: Two (Cummins QSK19-R650) Turbo charged Diesel Engines

Transmissions: Voith Type T311r Two-Speed Forward & Reverse Automatic with Torque

Converter

Acceleration Rate: 0-90 mph in 4 minutes

Trucks: Plasser High-Speed Trucks; All Axles Driven; 110 mph Gearing; Air & Coil Spring

Suspension; Outboard Roller Journal Bearings

Brakes: Knorr Disk Brakes with ABS; Parking Brake with Manual Override, Capable

Service Brake Rate of 2.2 MPHPS and an Emergency Rate of 2.8 MPHPS

Sanders: All Axles Except Test Axle

Heating: 72 KW Electrical Resistance Heating from AC units and Electric Floor Heat

Air conditioning: Twelve 1.2-Ton Roof Mounted Air Conditioners

Communications: Internal Public Address and Cellular Telephone, and (2) 100 Channel Clean Cab

Radios. Direct Satellite Communication System, Portable Hand-held radios,

Forward Observer's Control Console

Marking Paint

Sprayer: External; DGPS Reporting

ELECTRICAL

Generators: Cummins 4BT3.9-G3 Diesel Engine with Stamford 58 KW AC Generator and,

480V alternator

Converter: 7.5 kva UPS Unit Wayside: 480 V AC, 3 PH

Lighting: 120v, 60 Hz Fluorescent; 24 VDC Emergency Lighting

Batteries: Six (6) 12 volt (24 volt system)

SUMMARY OF GENERAL SPECIFICATIONS FOR TRACK GEOMETRY MEASUREMENT VEHICLE FRA T-2000 (CONTINUED)

DIMENSIONS AND WEIGHTS

Weight, w/ Fuel **210,000 pounds (105 tons)**

Loading Each Axle 26.25 tons

Length Over Pulling Face of Couplers (PFC) 91' 10"

Truck Center Distance 65' 11"

Truck Wheelbase 8' 2½"

Maximum Length Carbody (including plows) 89' 4"

Maximum Width Carbody 10' 0"

Maximum Height - Rail to Top of Air Conditioning

Units, New Wheels, Light Car 15' 5 1/8"

Height, Rail to Top of Finished Floor 53 %"

Wheel Diameter (New) 35 ½"

Fuel Capacity 1050 U.S. gallons

ACCOMMODATIONS

Non-Potable Water: 100-Gallon Tank;

Support Facilities: Kitchen, Work Bench; Tool Storage Cabinets, Instrumentation Areas

Observation: Two Large Observation Windows at Each End of Car (3) Monitors

Communications: Internal Public Address System with External Jacks; Forward Observer's

Control Console; Portable 'walkie-talkies'

Safety Equipment: First Aid Kits; Evacuation Tools; Escape Rope; Fire Extinguishers; Derails;

Wheel Chocks; Blue Flags and Lights; Personal Protection (safety vests,

eyewear, hard hat, breathing apparatus, steel-toed shoes, etc.) Equipment

Kitchen: Microwave Oven; Refrigerator-Freezer (15 cubic feet.); Refrigerator-Freezer

(6.3 cubic feet.); Sink.

Seating: Seating for 16 People (Including Engineer/Pilot): Rear Observation (3);

Kitchen (6); Computer Room (3); Forward Area (4)

Toilet Facilities: Self-Contained Microphor System (Serves 16 People); Lavatory

MISCELLANEOUS

Flammable Stores Locker; Track Illumination Lights, Undercar Instrumentation Lights

Accommodations: Closets, six lockers